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**Product Data Sheet**

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Product Name: SARS MERS, Sf9

Cat. No.: GP26371

Batch No.: 1

**Product Data**

Purity &gt;98% Source Sf9, Baculovirus cells.

Physical Appearance solid Shipping Condition withIcePacks

Synonyms Middle East respiratory syndrome coronavirus, Human betacoronavirus 2c EMC/2012, MERS-CoV, MERS, MERSCoV SP, Spike glycoprotein, S glycoprotein, S, Spike protein, E2, Peplomer protein

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Amino Acid  
Sequence

YVDVGPDSVK SACIEVDIQQ TFFDKTWPRP IDVSKADGII YPQGRYTSNI  
 TITYQGLFPY QGDHGDMYVY SAGHATGTTP QKLFVANYSQ DVKQFANGFV  
 VRIGAAANST GTVIISPSTS ATIRKIYPAF MLGSSVGNFS DGKMGRFFNH  
 TLVLLPDGCG TLLRAFYCIL EPRSGNHCPA GNSYTSFATY HTPATDCSDG  
 NYNRNASLNS FKEYFNLRNC TFMYYTYNITE DEILEWFGIT QTAQGVHLFS  
 SRYVDLYGGN MFQFATLPVY DTIKYYSIIP HSIRSIQSDR KAWAAFVYVK  
 LQPLTFLLDF SVDGYIRRAI DCGFNDLSQL HCSYESFDVE SGVYSVSSFE  
 AKPSGSVVEQ AEGVECDFSP LLSGTTPQVY NFKRLVFTNC NYNLTKLLSL  
 FSVNDFTCSQ ISPAAIASNC YSSLILDYFS YPLSMKSDLS VSSAGPISQF  
 NYKQSFNSPT CLILATVPHN LTTITKPLKY SYINKCSRLL SDDRTEVPQL  
 VNANQYSPCV SIVPSTVWED GDYYRKQLSP LEGGGWLVAS GSTVAMTEQL  
 QMGFGITVQY GTDTNSVCPK LEFANDTKIA SQLGNCVEYS LYGVSGRGVF  
 QNCTAVGVRQ QRFVYDAYQN LVGYYSDDGN YYCLRACVSV PVSVIYDKET  
 KTHATLFGSV ACEHISSTMS QYSRSTRSML KRRDSTYGPL QTPVGCVLGL  
 VNSSLFVEDC KLPLGQSLCA LPDTPSTLTP RSVRSVPGEM RLASIAFNHP  
 IQVDQLNSSY FKLSIPTNFS FGVTTQEIQT TIQKVTVDCK QYVCNGFQKC  
 EQLLREYGQF CSKINQALHG ANLRQDDSVR NLFASVKSSQ SSPIIPGFGG  
 DFNLTLLPEV SISTGSR SAR SAIEDLLFDK VTIADPGYMQ GYDDCMQQGP  
 ASARDLICAQ YVAGYKVLPP LMDVNMEAAY TSSLLGSIAG VGWTAGLSSF  
 AAIPFAQSIF YRLNGVGITQ QVLSENQKLI ANKFNQALGA MQTGFTTTNE  
 AFQKVQDAVN NNAQALSKLA SELSNTFGAI SASIGDIIQR LDVLEQDAQI  
 DRLINGRLTT LNAFVAQQLV RSESAALSAQ LAKDKVNECV KAQSKRSGFC  
 GQGTHIVSFV VNAPNGLYFM HVGYYPSNHI EVVSAYGLCD AANPTNCIAP  
 VNGYFIKTNN TRIVDEWSYT GSSFYAPEPI TSLNTKYVAP QVTYQNI  
 LPPPLLGNST GIDFQDELDE FFKNVSTSIP NFGSLTQINT TLLDLTYEML  
 SLQQVVKALN ESYIDLKELG NYTYYNKWPH HHHHH

## Formulation

The SARS MERS solution (0.25mg/ml) contains 10% glycerol and Phosphate-Buffered Saline (pH 7.4).

**Introduction**

Since April 2012, cases of the Middle East Respiratory Syndrome Coronavirus (MERS-CoV) have been identified in various countries. Coronaviruses are the cause of the common cold, SARS (severe acute respiratory syndrome) and other severe illnesses with high mortality rates, all are classified into coronavirus family. MERS-CoV is a new type of

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SARS found in the coronavirus family causing severe pneumonia with sudden and serious respiratory illness with high mortality rates as well. Since January 27th 2015, the WHO has reported 956 human cases, including 351 deaths. More cases of the new coronavirus strain are expected. Like in other coronaviruses, large surface spike glycoprotein is a central structural protein of this virus; it is located above the virion surface to bind and enter into the target cell. Spike protein has 2 domains- S1 and S2. The S1 domain is responsible for cellular tropism and interaction with target cell, while the S2 domain is responsible for membrane fusion. The C-terminal of S1 domain contains a receptor binding domain, and is also a potential target for vaccine development and an antigen for diagnosis.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

SARS MERS Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 1285 amino acids (18-1296aa) and having a molecular mass of 141.6kDa. SARS MERS is fused to a 6 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques.

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